

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number: 041673/2043	Application Number: 09/620,174
	Applicant: Tuszynski, et al.	
	Filing Date: 07/19/2000	Group Art Unit: 1633

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
LDL	A1	01/21/92	5,082,670	Gage et al.			
	A2	06/25/96	5,529,774	Barba et al.			
	A3	07/22/97	5,650,148	Gage et al.			
	A4	11/04/97	5,683,695	Shen et al.			
	A5	05/26/98	5,756,312	Weiner et al.			
	A6	06/09/98	5,762,926	Gage et al.			


FOREIGN PATENT DOCUMENTS

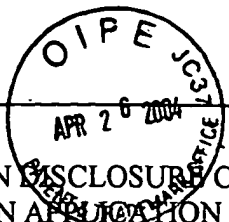
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
LDL	A7*	06/28/90	WO 90/06757	PCT			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
LDL	A8	Armelin et al., "Pituitary extracts and steroid hormones in the control of 3T3 cell growth" <u>Proc. Natl. Acad. Sci.</u> (1973) 70:2702-6.
	A9	Banerji et al., "Expression of a beta-globin gene is enhanced by remote SV40 DNA sequences" <u>Cell</u> (1981) 27:299-308.
	A10	Benoist et al., "In vivo sequence requirements of the SV40 early promoter region" <u>Nature</u> (1981) 290:304-10.
	A11	Blesch et al., "Ex vivo gene therapy for Alzheimer's disease and spinal cord injury" <u>Clinical Neuroscience</u> (1996) 3:268-274.
	A12	Borsani et al., "cDNA sequence of human beta-NGF" <u>Nucleic Acids Res.</u> (1990) 18:4020.
	A13	Breathnach et al., "Organization and expression of eucaryotic split genes coding for proteins" <u>Ann. Rev. Biochem.</u> (1981) 50:349-83.
	A14	Chen et al., "Calcium phosphate-mediated gene transfer: a highly efficient transfection system for stably transforming cells with plasmid DNA" <u>BioTechniques</u> (1988) 6:632-8.
	A15	Chen et al., "High-efficiency transformation of mammalian cells by plasmid DNA" <u>Mol. Cell. Biol.</u> (1987) 7:2745-52.
	A16	Chua et al., "Tumor necrosis factor-alpha induces mRNA for collagenase and TIMP in human skin fibroblasts" <u>Connect. Tissue Res.</u> (1990) 25:161-170.
	A17	Conner et al., "Distribution of NGF delivered into the rat CNS by either grafted NGF-secreting fibroblasts, intraparenchymal (IP) injections, or IP-infusions" <u>Society for Neuroscience</u> (1997) 23:53 Abstract 29.5.

1 EXAMINER: 	DATE CONSIDERED: 12/15/04 1/18/05
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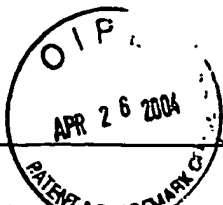
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Examiner Initials	Ref. No.	Title
LDL	A18*	Corden et al., "Promoter sequences of eukaryotic protein-coding genes." <u>Science</u> (1980) 209:1406-14.
	A19*	DePamphilis et al., "Microinjecting DNA into mouse ova to study DNA replication and gene expression and to produce transgenic animals" <u>BioTechniques</u> (1988) 6:662-80.
	A20*	de Wet et al., "The mRNAs for the pro-alpha 1(I) and pro-alpha 2(I) chains of type I procollagen are translated at the same rate in normal human fibroblasts and in fibroblasts from two variants of osteogenesis imperfecta with altered steady state ratios of the two mRNAs" <u>J. Biol. Chem.</u> (1983) 258:14385-9.
	A21*	Elias et al., "Regulation of human lung fibroblast collagen production by recombinant interleukin-1, tumor necrosis factor, and interferon-gamma" <u>Ann. N.Y. Acad. Sci.</u> (1990) 580:233-244.
	A22*	Felgner et al., "Cationic liposome mediated transfection" <u>Proc. West. Pharmacol. Soc.</u> (1989) 32:115-21.
	A23*	Felgner et al., "Cationic liposome mediated transfection" <u>Focus</u> . (1989) 11:21-25.
	A24*	Felgner et al., "Lipofection: a highly efficient, lipid-mediated DNA-transfection procedure" <u>Proc. Natl. Acad. Sci.</u> (1987) 84:7413-7.
	A25*	Fraley et al., "New generation liposomes: the engineering of an efficient vehicle for intracellular delivery of nucleic acids" <u>Trends Biochem. Sci.</u> (1981) 6:77-80.
	A26*	Fromm et al., "Deletion mapping of DNA regions required for SV40 early region promoter function in vivo" <u>J. Mol. Appl. Genet.</u> (1982) 1:457-81.
	A27*	Gruss et al., "Simian virus 40 tandem repeated sequences as an element of the early promoter" <u>Proc. Natl. Acad. Sci.</u> (1981) 78:943-7.
	A28*	Hefti et al., "Nerve growth factor and Alzheimer's disease" <u>Ann. Neurol.</u> (1986) 20:275-81.
	A29*	Higgins et al., "NGF receptor gene expression is decreased in the nucleus basalis in Alzheimer's disease" <u>Exp. Neurol.</u> (1989) 106:222-36.
	A30*	Horellou et al., "Adenovirus-mediated gene transfer to the central nervous system for Parkinson's Disease" <u>Experimental Neurobiology</u> (1997) 144:131-8.
	A31*	Jolly et al., "Elements in the long terminal repeat of murine retroviruses enhance stable transformation by thymidine kinase gene" <u>Nucleic Acids Res.</u> (1983) 11:1855-1872.
	A32*	Kobayashi et al., "Morphometric study on the CHS of the nucleus basalis of Meynert in Alzheimer's disease" <u>Mol. Chem. Neuropathol.</u> (1991) 15:193-206.
	A33*	Kordower et al., "The aged monkey basal forebrain: Rescue and sprouting of axotomized basal forebrain neurons after grafts of encapsulated cells secreting human nerve growth factor" <u>Proc. Natl. Acad. Sci.</u> (1994) 91:10898-10902.
	A34*	Lehericy et al., "Heterogeneity and selectivity of the degeneration of cholinergic neurons in the basal forebrain of patients with Alzheimer's disease" <u>J. Comp. Neurol.</u> (1993) 330:15-31.
	A35*	Levivier et al., "Intrastriatal implantation of fibroblasts genetically engineered to produce brain-derived neurotrophic factor prevents degeneration of dopaminergic neurons in a rat model of Parkinson's disease" <u>The Jo. Of Neuroscience</u> (1995) 15:7810-20.

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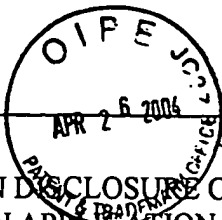
OTHER DOCUMENTS*(including author, title, Date, Pertinent Pages, Etc.)*

Examiner Initials	Ref. No.	Title
LDL	A36*	Mannino et al., "Liposome mediated gene transfer" <u>Biotechniques</u> (1988) 6:682-90.
	A37*	Maxam et al., "Sequencing end-labeled DNA with base-specific chemical cleavages" <u>Methods in Enzymology</u> (1980) 65:499-560.
	A38*	McCutchan et al., "Enhancement of the infectivity of simian virus 40 deoxy ribonucleic acid with diethylaminoethyl-dextran" <u>J. Natl. Cancer Inst.</u> (1968) 41:351-7.
	A39*	Messing et al., "A system for shotgun DNA sequencing" <u>Nucleic Acids Res.</u> (1981) 9:309-21.
	A40*	Mesulam et al., "Cholinergic innervation of cortex by the basal forebrain: cytochemistry and cortical connections of the septal area, diagonal band nuclei, nucleus basalis (substantia innominata), and hypothalamus in the rhesus monkey." <u>J. Comp. Neurol.</u> (1983) 214:170-197.
	A41*	Moreau et al., "The SV40 72 base repair repeat has a striking effect on gene expression both in SV40 and other chimeric recombinants" <u>Nucleic Acids Res.</u> (1981) 9:6047-6068.
	A42*	Mufson et al., "Loss of nerve growth factor receptor-containing neurons in Alzheimer's disease: A quantitative analysis across subregions of the basal forebrain" <u>Exp. Neurol.</u> (1989) 105:221-32.
	A43*	Mufson et al., "Nerve growth factor receptor expressing human basal forebrain neurons: pathologic alterations in Alzheimer's and Parkinson's disease" <u>Prog. Clin. Biol. Res.</u> (1989) 317:401-14.
	A44*	Palmer et al., "Genetically modified skin fibroblasts persist long after transplantation but gradually inactivate introduced genes" <u>Proc. Natl. Acad. Sci.</u> (1991) 88:1330-4.
	A45*	Potter et al., "Electroporation in biology: methods, applications, and instrumentation" <u>Anal. Biochem.</u> (1988) 174:361-73.
	A46*	Prockop et al., "Heritable diseases of collagen" <u>N. Eng. J. Med.</u> (1984) 311:376-86.
	A47*	Raymon et al., "Application of ex vivo gene therapy in the treatment of Parkinson's disease" <u>Experimental Neurobiology</u> (1997) 144:82-91.
	A48*	Rossi et al., "Identification of a cell-specific transcriptional enhancer in the first intron of the mouse alpha 2 (type I) collagen gene" <u>Proc. Natl. Acad. Sci.</u> (1987) 84:5590-4.
	A49*	Schmidt et al., "Regulation of a collagen promoter by the product of viral mos oncogene" <u>Nature</u> (1985) 314:286-9.
	A50*	Seliger et al., "Gamma interferon regulates long terminal repeat-controlled oncogene expression in transformed mouse fibroblasts at the level of mRNA transcription" <u>J. Virology</u> (1988) 62:619-21.
	A51*	Seliger et al., "Tumor necrosis factor-alpha affects LTR-controlled oncogene expression in transformed mouse fibroblasts at the post-transcriptional level" <u>J. Immunol.</u> (1988) 141:2138-44.
	A52*	Shvaloff et al., "Lines of therapeutic research in Alzheimer's disease" <u>Psychopharmacology Bulletin</u> (1996) 32:343-52..
	A53*	Smith et al., "Age-associated neuronal atrophy occurs in the primate brain and is reversible by growth factor gene therapy" <u>Proc. Natl. Acad. Sci.</u> (1999) 96:10893-8.
✓	A54*	Smith et al., "Characterization of collagen synthesized by normal and chemically transformed rat liver epithelial cell lines" <u>Biochem.</u> (1980) 19:1820-5.

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Examiner Initials	Ref. No.	Title
UL	A55 *	Toneguzzo et al., "Electric field-mediated DNA transfer: transient and stable gene expression in human and mouse lymphoid cells" <u>Molec. Cell. Biol.</u> (1986) 6:703-6.
	A56 *	Tuszynski et al., "Gene therapy in the adult primate brain: intraparenchymal grafts of cells genetically modified to produce nerve growth factor prevent cholinergic neuronal degeneration" <u>Gene Therapy</u> (1996) 3:305-14.
	A57 *	Tuszynski et al., "Recombinant human nerve growth factor infusions prevent cholinergic neuronal degeneration in the adult primate brain" <u>Ann. Neurol.</u> (1991) 30:625-36.
	A58 *	Tuszynski et al., "Somatic gene therapy for nervous system disease" <u>Ciba Foundation Symposium 196, Growth factors as drugs for neurological and sensory disorders</u> (1996) 196:85-97.
	A59 *	Tuszynski et al., "The chronically injured spinal cord exhibits responsiveness to NGF delivered locally by gene therapy" <u>Society for Neuroscience</u> (1995) 21:1562 Abstract 613.3.
	A60 *	Ullrich et al., "Human beta-nerve growth factor gene sequence highly homologous to that of a mouse" <u>Nature</u> (1983) 303:821-5.
✓	A61 *	Wolff et al., "Expression of retrovirally transduced genes in primary cultures of rat hepatocytes" <u>Proc. Natl. Acad. Sci.</u> (1987) 84:3344-8.

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Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 041673-2043	SERIAL NO. 09/620,174
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

LDK	A1 *	Kojima, et al., "Adenovirus-Mediated transduction with human glial cell line-derived neurotrophic factor gene prevents 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced dopamine depletion in striatum of mouse brain," <i>Biochemical and Biophysical Research Communications</i> , 238:569-573 (1997)
	A2 *	Roberts, et al., "Effects of NGF-Secreting Genetically Modified Cell Grafts on Cholinergic Neuronal Morphology and Gognition in Aged Primates," <i>Soc. For Neuroscience Abstracts</i> , 21(2):613.8 (1995)
	A3 *	Yang, et al., "Gene Therapy for Central Nervous System Injury: The Use of Cationic Liposomes: An Invited Review," <i>Journal of Neurotrauma</i> , 14(5):281-297 (1997)
	A4 *	Zlokovic, et al., "Cellular and Molecular Neurosurgery: Pathways From Concept to Reality - Part II: Vector Systems and Delivery Methodologies for Gene Therapy of The Central Nervous System," <i>Neurosurgery</i> , 40(4):805-813 (1997)

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	4/19/05

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

LDL	AT*	Tuszynski, et al., "Targeted Intraparenchymal Delivery of Human NGF by Gene Transfer to the Primate Basal Forebrain for 3 Months Does Not Accelerate β -Amyloid Plaque Disposition," <i>Experimental Neurology</i> , Article No. EN986956 1-10 (1998).

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